

Imaging Arrangement and Process for Locally-Resolved Imaging

Abstract:

For easy detection and imaging of even microscopically small pathological structures bordering blood vessels in a human or animal body, especially of lymphatic tissue and arteriosclerotic deposits in the blood vessels, an arrangement and a process are proposed according to which a nuclear spin tomography device is used to obtain data for locally-resolved imaging of the magnetic resonance behavior of the atomic nuclei in a selected field of view in the body, the device being made and programmed such that the body can be exposed by the device to high frequency and magnetic field gradient echo pulse sequences that produce magnetization in the body so that magnetization of a medium that is flowing in at least one direction in space in the body can be attenuated by dephasing the spins of the atomic nuclei in the medium, an MR contrast medium being supplied to the body.

(Figure 5)